

Sheet 1 of 3

INSTITUTE FORM PTO-1449 (MODIFIED) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 C.F.R. § 1.98(b))	Attorney Docket No.	50111/081002
	Serial No.	10/719,916
	Applicant	Kearney et al.
	Filing Date	November 21, 2003
	Group	2862
IDS Filed	February 6, 2006	

U.S. PATENT DOCUMENTS						
Examiner's Initials	Document Number	Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
JL	6,906,320 B2	06/14/2005	Sachs et al.			
	6,835,927 B2	12/28/2004	Becker et al.			
	6,218,122 B1	04/17/2001	Friend et al.			
	5,885,841	3/23/1999	Higgs, Jr. et al.			
	2006/003385 A1	01/05/2006	Aguilera et al.			
	2005/0233464 A1	10/20/2005	Compton et al.			
	2005/0092910 A1	05/05/2005	Geromanos et al.			
	2004/0113062	07/17/2004	Norton			
	2002/0119490 A1	8/29/2002	Aebersold et al.			
	2002/0115056 A1	8/22/2002	Goodlett			
	2003/0040123	02/27/2003	Hastings			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
JL	WO 03/054549 A2	07/03/2003	WIPO			
	WO 03/042774	05/22/2003	WIPO			
	WO 02/061661	08/08/2002	WIPO			
	WO 01/84143 A	11/8/2001	WIPO			
	GB 2385918 A	03/09/2003	United Kingdom			

EXAMINER	/Jerry Lin/	DATE CONSIDERED	09/21/2006
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.			

SUBSTITUTE FORM PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket No.	50111/081002	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Serial No.	10/719,916	
		Applicant	Kearney et al.	
		Filing Date	November 21, 2003	
		Group	2862	
(37 C.F.R. § 1.98(b))			IDS Filed	February 6, 2006

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)	
JL	Abramson et al., "Application of High-Performance Liquid Chromatography With Isotope-Ratio Mass Spectrometry For Measuring Low Levels of Enrichment of Underivatized Materials," <i>Journal of Chromatography A</i> , 913:269-273 (2001).
	Bylund et al., "Chromatographic Alignment of Warping and Dynamic Programming as a Pre-Processing Tool for PARAFAC Modelling of Liquid Chromatography-Mass Spectrometry Data," <i>J. Chromatog. A</i> 961:237-244 (2002).
	Bondarenko et al., "Identification and Relative Quantitation of Protein Mixtures by Enzymatic Digestion Followed by Capillary Reversed-Phase Liquid Chromatography – Tandem Mass Spectrometry," <i>Anal. Chem.</i> 74:4741-4749 (2002).
	Bures et al., "Identification of Incompletely Processed Potential Carboxypeptidase E-Substrates from CpE tm /CpE tm Mice," <i>Proteomics</i> 1:79-92 (2001).
	Chelius et al., "Quantitative Profiling of Proteins in Complex Mixtures Using Liquid Chromatography and Mass Spectrometry," <i>J. of Proteome Res.</i> 1:317-323 (2002).
	Cottrell, "Protein Identification by Peptide Mass Fingerprinting," <i>Pept. Res.</i> 7:115-124 (1994).
	Davis et al., "Automated LC-LC-MS-MS Platform Using Binary Ion-Exchange and Gradient Reversed-Phase Chromatography for Improved Proteomic Analyses," <i>J. Chromatogr. B. Biomed. Sci. Appl.</i> 752:281-291 (2001).
	Dharsee et al., "Automated Differential Analysis of LC-MS Data Sets," 5 th Annual Canadian Proteomics Initiative Conference, (University of Toronto, Toronto, Ontario, Canada (May 13-14, 2005)).
	Faubert et al., "Monitoring Protein Expression Profiles Between Differentiated Cells Using the Normalized Abundance of Native Tryptic Peptides," <i>Abstract Proc. 50th ASMA Conference on Mass Spectrometry and Allied Topics</i> , Orlando, June 3-6, 2002.
	Godovac-Zimmermann et al., "Perspectives for Mass Spectrometry and Functional Proteomics," <i>Mass Spectrom. Rev.</i> 20:1-57 (2001).
	Gygi et al., "Evaluation of Two-dimensional Gel Electrophoresis-based Proteome Analysis Technology," <i>Proc. Natl. Acad. Sci. USA</i> 97:9390-9395 (2000).
	Han et al., "Quantitative Profiling of Differentiation-Induced Microsomal Proteins Using Isotope-Coded Affinity Tags and Mass Spectrometry," <i>Nat. Biotechnol.</i> 19:946-951 (2001).
	Hastings et al., "New Algorithms For Processing and Peak Detection in Liquid Chromatography/Mass Spectrometry Data," <i>Rapid Commun. Mass Spectrom.</i> 16:462-467(2002).
	Hoke et al., "Transformations in Pharmaceutical Research and Development, Driven by Innovations in Multidimensional Mass Spectrometry-Based Technologies" <i>Int. J. Mass Spectrom.</i> 212:135-196 (2001).
	Horn et al., "Automated Reduction and Interpretation of High Resolution Electrospray Mass Spectra of Large Molecules," <i>J. Am. Soc. Mass. Spectrom.</i> 11:320-332 (2000).

EXAMINER	/Jerry Lin/	DATE CONSIDERED	09/21/2006
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.			

SUBSTITUTE FORM PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket No.	50111/081002
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Serial No.	10/719,916
(37 C.F.R. § 1.98(b))		Applicant	Kearney et al.
		Filing Date	November 21, 2003
		Group	2862
		IDS Filed	February 6, 2006

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)	
JL	Kearney et al., "Bioinformatics Meets Proteomics – Bridging the Gap Between Mass Spectrometry Data Analysis and Cell Biology," <i>Journal of Bioinformatics and Computational Biology</i> 1:183-200 (2003).
	Link et al., "Direct Analysis of Protein Complexes Using Mass Spectrometry," <i>Nat Biotechnol</i> 17:676-682 (1999).
	Mintz et al., "Purification and Biochemical Characterization of Interchromatin Granule Clusters," <i>EMBO J</i> 18:4308-4320 (1999).
	Nyman, "The Role of Mass Spectrometry in Proteome Studies," <i>Biomol. Eng.</i> 18:221-227 (2001).
	Patterson et al., "Mass Spectrometric Identification of Proteins Released From Mitochondria Undergoing Permeability Transition," <i>Cell Death Differ.</i> 7:137-144 (2000).
	Senko et al., "Automated Assignment of Charge States from Resolved Isotopic Peaks for Multiply Charged Ions," <i>J. Am. Soc. Mass. Spectrom.</i> 6:52-56 (1995).
	Shevchenko et al., "Rapid 'de Novo' Peptide Sequencing by a Combination of Nanoelectrospray, Isotopic Labeling and a Quadrupole/Time-of-flight Mass Spectrometer," <i>Rapid Commun. Mass Spectrom.</i> 11:1015-1024 (1997).
	Taylor et al., "Parallel Molecular Dynamics: Implications for Massively Parallel Machines," <i>Journal of Parallel and Distributed Computing</i> 45:166-175 (1997).
	Wiener et al. "Differential Mass Spectrometry: A Label-free LC-MS Method for Finding Significant Differences in Complex Peptide and Protein Mixtures," <i>Anal. Chem.</i> 76:6085-6096 (2004).
	Yao et al., "Proteolytic ¹⁸ O Labeling for Comparative Proteomics: Model Studies with Two Serotypes of Adenovirus," <i>Anal. Chem.</i> 73:2836-2842 (2001).
	Copy of the PCT International Search Report, PCT/IB03/06376, date of mailing September 20, 2005 (7 pages).
	Copy of the PCT Written Opinion, PCT/IB03/06376, date of mailing September 26, 2005 (3 pages).

EXAMINER	/Jerry Lin/	DATE CONSIDERED	09/21/2006
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.			



TO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

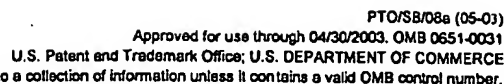
Under the Paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known		
				Application Number	10/719,916	
				Filing Date	November 21, 2003	
				First Named Inventor	KEARNEY, PAUL EDWARD	
				Art Unit	2862	
				Examiner Name	Unassigned	
1 of 1				Attorney Docket Number	CAPN-001	
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		WO 03/061661	08-08-2003	Schneider, et al.		
		WO 03/042774	05-22-2003	Aguilera, et al.		
NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
		BYLOND, D., et al., "Chromatographic alignment by warping and dynamic programming as a pre-processing tool for PARAFAC modelling of liquid chromatography-mass spectrometry data," (2002) Journal of Chromatography A, 981:237-244				
		HOKE, S.H., et al., "Transformations in pharmaceutical research and development, driven by innovations in multidimensional mass spectrometry-based technologies," (2001) International Journal of Mass Spectrometry, 212:135-196				
Examiner Signature	/Jerry Lin/			Date Considered	09/21/2006	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Examiner Signature	/Jerry Lin/	Date Considered	09/21/2006
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	10/719,916	
			Filing Date	November 21, 2003	
			First Named Inventor	KEARNEY, PAUL EDWARD	
			Art Unit	2862	
Sheet	1	of	1	Examiner Name	
				Attorney Docket Number	CAPN-001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US 2003/0040123	Feb. 27, 2003	Hastings	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		HASTINGS et al., NEW ALGORITHMS FOR PROCESSING AND PEAK DETECTION IN LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY DATA, Rapid Commun. Mass. Spectrom., 2002, 16: 462-467	

Examiner Signature	/Jerry Lin/	Date Considered	09/21/2006
-----------------------	-------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.